R12IM3S-GSM2(HB)
12.1" ARM A53 G-WIN GS-Series Full IP65 PCAP Panel PC

KEY FEATURES

- 12.1" 1024 x 768 with PCAP touchscreen
- ARM A53 Quad Core 2.0GHz
- Fanless cooling system and Ultralow power consumption
- Onboard 32GB eMMC
- Onboard LPDDR4 4GB
- Full IP65
- 1 x LAN, 1 x RS232, 1 x USB, 1 x Micro USB, 1 x Micro SD
- Support Android or Linux operating system

CE FC IP65

OVERVIEW

Easy-to-Clean Flat Surface

Winmate's Flat aluminum display goes beyond that of the standard industrial panel computers with its elegant, edge-to-edge design. The Panel PC is easy to clean, plus the screen is resistant to water and liquid droplets.

Dust and Water Protection

The dust and waterproof Panel PC complies with IP65 standards. Plus, the M12 connectors are waterproof for varying industrial environments.

Fanless Cooling System

The fanless design eliminates dust circulation for improved product longevity – especially in heavy-duty applications where dusty conditions are prevalent.

Comprehensive I/O Ports

Combining ruggedness with a range of I/O ports makes this device highly usable for heavy-duty industrial applications. Plus, the waterproof connectors come with screw-on caps for added protection.
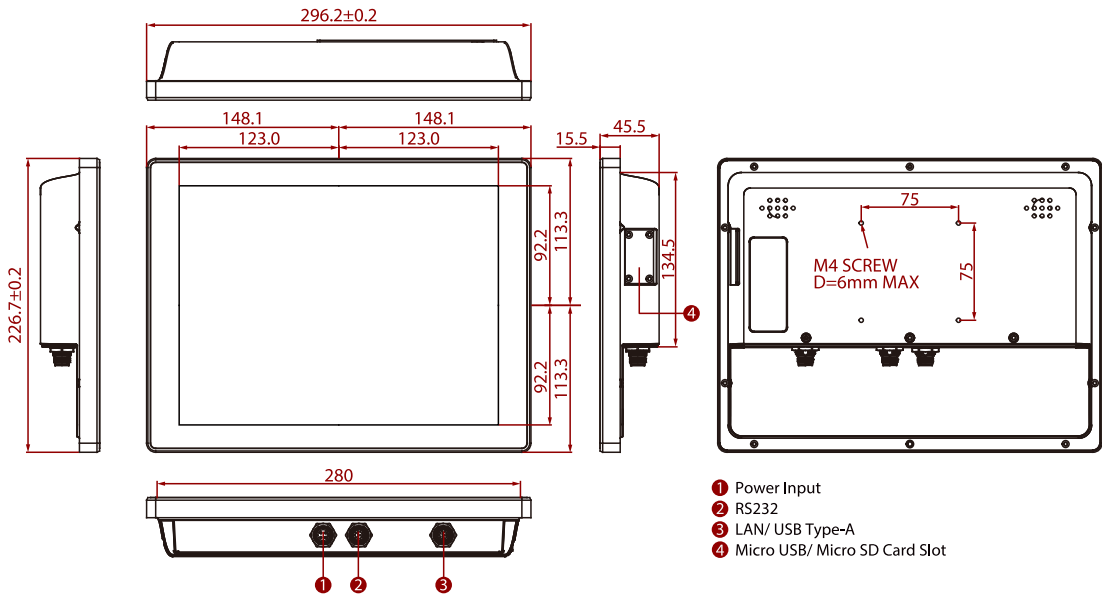
Anti-Shock and Vibration

The G-Win series is as tough as it gets. The Panel PCs are compliant with MIL-STD-810G, and the aluminum die-casting is rock solid. Plus, optical bonding technology with anti-moisture treatment and resistive coating ensure the screen and housing are both rugged to the max.

SPECIFICATIONS

Display

Touch / Glass	Projected Capacitive Multi Touch Screen Protection Glass (Optional)	Resolution	1024x768

Size	12.1 inches		**Contrast Ratio**	1000:1
Panel Brightness	500 nits 1000 nits(Optional)		**View Angles**	89,89,89,89
Active Area	245.76x184.32 mm			

System Specification

Processor	ARM A53 (Quad Core 2.0GHz)		**Memory**	4GB LPDDR4
Storage	eMMC: Onboard 32 GB		**Operating System**	Android 11 (Upgradeable to Android 13) Linux Yocto 5.10.104 with QT 5.15 (Optional) Linux Ubuntu Server 22.04 (Optional)

Environment

Operating Humidity	10% to 95% RH, Non-Condensing		**Operating Temperature**	-15°C to 55°C
Storage Temperature	-30°C to 60°C		**Shock**	40g for 11ms
Vibration	1.48/1.90/2.24 g rms for XYZ/ 5-500Hz		**IP rating**	IP65

Certification

Certification	CE, FCC

IO Ports

USB Port	1 X USB 2.0 (M12 type) 1 X Micro USB		**Serial Port**	1 x RS232 (M12 type)(Optional 422/485)
SD Card Slot	1 x Micro SD card slot (Max to 32GB)		**Audio**	2 x Speaker
LAN	1 x LAN 10/100/1000 Mbps (M12 type)			

Mechanical

Dimension	296.2 x 226.7 x 45.5 mm		**Mounting**	Panel Mount VESA Mount
Enclosure	Metal Housing with Aluminum Bezel		**Cooling System**	Fanless Design

Power

Power Rating	12V DC (M12 type)

Accessory

Accessory	Quick Start Guide (Hardcopy) M12 Power Cable M12 Serial Interface Cable M12 USB/ LAN Cable I/O Protective Cap x 3

DIMENSIONS   UNIT:MM

1. Power Input
2. RS232
3. LAN/ USB Type-A
4. Micro USB/ Micro SD Card Slot

NOTE

1. This is a simplified drawing and some components are not marked in detail.
2. Please contact our sales representative if you need further product information.
3. All specifications are subject to change without prior notice.
4. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.

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